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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,238	12/02/2003	Gary Shipton	PEA12US	6692
24011	7590	09/19/2006	EXAMINER	
SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, NSW 2041 AUSTRALIA				WEINMAN, SEAN M
		ART UNIT		PAPER NUMBER
		2115		

DATE MAILED: 09/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/727,238	SHIPTON, GARY	
	Examiner Sean Weinman	Art Unit 2115	

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on amendment filed on July 3, 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-5 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 02 December 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

This action is responsive to the amendment filed on July 3, 2006. Claims 1-5 are pending.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

10 (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

15 ***Claims 1-5*** are rejected under 35 U.S.C. 103(a) as being unpatentable over Muller (US Patent No. 4,644,494) in view of Schu et al. (US Patent No. 5,973,968).

As per claim 1, Muller teaches the claimed invention comprising:

20 An integrated circuit (*Figure 1 Reference character 40*) comprising a processor (*Figure 3 Reference character 32 and Col. 7 lines 43-49*), a memory that the processor can access (*Figure 3 Reference character 38*), a memory access unit for controlling accesses to the memory (*Figure 3 Reference character 32*), an input for receiving power for the integrated circuit from an external power source (*Figure 2 Reference character 62*), and a power detection unit (*Figure 1 Reference character 52*), the power detection unit being configured to:

25 monitor a quality of power supplied to the input (*Col. 2 lines 29-51*);
in the event the quality of the power drops below a predetermined threshold, disabling a power supply to circuitry for use in writing to the memory, such that the memory access unit's

ability to alter data in the memory is disabled prior to address or data values to be written to the memory becoming unreliable due to failing power (*Col. 9 lines 49-54*).

Muller, however, does not teach that in the event that the power drops below a threshold, disabling power to the circuitry used for writing to the memory so that the memory's ability to write data to the memory is disabled. Specifically, Muller teaches in the event that the power drops below a predetermined threshold disabling the write/read function of the memory to prevent error in the memory. Muller fails to teach the disabling of the power supply to the write circuitry so that the memory cannot be written to when the power drops below a threshold.

Schu et al. teach a method for protecting memory that in the event of a loss of power the power to the write logic circuit can be selectively removed so that the memory will not be written to when the memory is unreliable. Schu et al. teaches the claimed invention comprising in the event the quality of the power drops below a predetermined threshold, disabling a power supply to circuitry for use in writing to the memory, such that the memory access unit's ability to alter data in the memory is disabled prior to address or data values to be written to the memory becoming unreliable due to failing power (*Col. 2 lines 56-63*). In summary, Schu et al. teaches that when the power is loss the power to the write logic circuitry is removed so that the data cannot be written to unreliable memory.

It would have been obvious to one of ordinary skill in the art to combine the teachings of Muller and Schu et al. because they both teach in the event that the power drops below a predetermined threshold disabling the write function of the memory to prevent error in the memory. Schu et al. teaches disabling of the power supply to the write circuitry so that the memory cannot be written to when the power drops below a threshold.

As per Claim 2, Muller teaches the circuit, wherein the memory is EEPROM (*Col.8, lines 15-16*) It is known in the area of the pertaining art that flash memory is a type of EEPROM.

Also, it would have been obvious to one of ordinary skill in the art that the power supply can be one or more charge pumps since a charge pump are often the best choice for powering an application requiring a combination of low power and low cost.

5 *As per Claim 3*, it would have been obvious to one of ordinary skill in the art that memory contents cannot be altered after the voltage output by the power supply drops so rapidly that the voltage to the memory is too low and before the address and data values become invalid.

10 *As per Claim 4*, Muller teaches the apparatus configured to cause a reset of at least some of the circuitry on the circuit following disabling of the power supply (*Abstract, lines 16-19*).

As per Claim 5, it would have been obvious to one of ordinary skill in the art that the said circuit designed to have a variable delay between the disabling of the power supply and causing the reset.

15 ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean Weinman whose phone number is (571) 272-2744. The examiner can normally be reached on Monday-Friday from 8:00-4:30.

20 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached on (571) 272-3667. The fax number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Sean Weinman
Examiner
Art Unit 2115

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CHUN CAO
PRIMARY EXAMINER